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(54) METHOD FOR PRESERVING ELECTRODE STRUCTURAL BODY

(57)Abstract

PURPOSE: To prevent the lowering in electrolysis efficiency by a shutdown and to enable the easy restart of operation by preserving an electrode structural body formed with an electrode material on the surface of ion exchange membranes while maintaining the ion exchange membranes in a dry state at the time of non-operation.

CONSTITUTION: The electrode structural body constituted by using the ion exchange membranes built into an electrolytic cell as a fixed electrolyte and forming the electrode material on the surface thereof is preserved by maintaining the ion exchange membranes in the dry state at the time of non-operation. After the electrolytes in both electrode chambers are discharged, a protective voltage is applied and the moisture in the two electrode chambers is discharged to the outside of the cell. The moisture remaining on the membranes is removed by heating to about 60° C and desorbing under a reduced pressure, by which the moisture content of the membranes is lowered to ≤15% and the membranes are preserved by hermetically closing the electrolytic cell. As a result, the deterioration of the electrode material is substantially prevented and the trouble by the shutdown is eliminated.

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